



# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/823,833	03/30/2001	Steven Lemay	IGTECH.0005P	6122	
7:	590 12/18/2002				
R. Scott Weide			EXAMINER		
Weide & Associated All Floor, Suit	te 1130		ENATSKY,	ENATSKY, AARON L	
330 South 3rd Street Las Vegas, NV 89101			ART UNIT	PAPER NUMBER	
		•	3713		
			DATE MAILED: 12/18/2002	DATE MAILED: 12/18/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner			Application No.	Applicant(s)	_			
Examiner Art Unit Ar		•		LEMAY ET AL.				
Aaron L Enatsky   3713	Office Action Summary							
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Ederbesion of time may be available used the provision of 3 CPR 1.15(6). In no event, however, may a reply be timely filled after SX (5) MONTHS from the realing date of this communication.  If NO particle treply is specified used the provision of 3 CPR 1.15(6). In no event, however, may a reply be timely filled after SX (6) MONTHS from the realing date of this communication.  If NO particle treply is specified above, the maximum distributy protein will use yet and will agree 5(5) MONTHS from the mailing date of this communication.  Fallow is reply within the set or extended preded for reply will, by adultic, cause the application in become ABMICORED (35 V.S. 5, 133).  Since this application is one of the communication, and the provision of the communication, and the particles, and the provision of the communication, and the provision of the communication of the co		•		į				
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THE MAILING DATE OF THIS COMMUNICATION.  Estensions of time may be available used the provision of 3 CFR 1.13(6). In no event, however, may a reply be timely filed other SX (6) MONTRS from the mailing date of this communication.  Fallure 10 (7) MONTRS from the mailing date of this communication.  Fallure 10 (7) MONTRS from the mailing date of this communication.  Fallure 10 (7) MONTRS from the mailing date of this communication.  Fallure 10 (7) MONTRS from the mailing date of this communication.  Fallure 10 (7) MONTRS from the mailing date of this communication.  Fallure 10 (7) MONTRS from the mailing date of this communication.  Fallure 10 (7) MONTRS from the mailing date of this communication.  Fallure 10 (7) MONTRS from the mailing date of this communication.  Fallure 10 (7) MONTRS from the mailing date of this communication.  Fallure 10 (7) MONTRS from the mailing date of this communication.  Fallure 11 (7) MONTRS from the mailing date of this communication.  Fallure 11 (7) MONTRS from the mailing date of this communication.  Fallure 11 (7) MONTRS from the mailing date of this communication.  Fallure 11 (7) MONTRS from the mailing date of this communication.  Fallure 12 (7) MONTRS from the mailing date of this communication.  Fallure 12 (7) MONTRS from the mailing date of this communication.  Fallure 12 (7) MONTRS from the mailing date of this communication.  Fallure 12 (7) MONTRS from the mailing date of this communication.  Fallure 12 (7) MONTRS from the mailing date of this communication.  Fallure 12 (7) MONTRS from the mailing date of this communication.  Fallure 12 (7) MONTRS from the mailing date of this communication.  Fallure 12 (7) MONTRS from the mailing date of this communication.  Fallure 12 (7) MONTRS from the mailing date of this communication.  Fallure 12 (7) MONTRS from the mailing date of this communication.  Fallure 12 (7) MONTRS from the mailing date of this communication.  Fallure 12 (7) MONTRS from the mailing date of this communication.  Fallure 12 (7) MONTRS from the mailing date of t			_					
1) Responsive to communication(s) filed on 21 October 2002.  2a) This action is FINAL. 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-36 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) 1-36 is/are allowed.  6) Claim(s) 1-36 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) 1-36 is/are rejected.  7) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: all accepted or bl objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: all approved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All bl Some * c  None of:  1. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies on treceived.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.	THE I - Exter after - If the - If NO - Failu - Any r earne	MAILING DATE OF THIS COMMUNICATION sions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stated the period of the period for reply will, by stated the period of the period by the Office later than three months after the main part of the period of the peri	N. 1.136(a). In no event, however, meply within the statutory minimum od will apply and will expire SIX (6) tute, cause the application to beco	ay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. ne ABANDONED (35 U.S.C. § 133).				
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#### DETAILED ACTION

### Response to Amendment

1. Examiner acknowledges receipt of amendment on 10/21/02.

# Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 25 remains rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicant requires that a resident code is adapted to cause some action, but fails to specify where or in which device the code resides. Furthermore, requirement for programmable data storage also renders the claim indefinite, as it is unknown if the code was meant to be resident on the peripheral or the game control device.

### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 4, 7-17, 19, 23-27, and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by Acres et al. '304 (Hereafter Acres). In re claims 1,4, and 25 Acres teaches a gaming device having an initiation sequence (Fig. 13-34), transmitting a signal from one device to another device where the signal is a polling signal (Fig. 16), where a transmitted signal would be an indicator to provide control code data (22:65-24:3), the control code is authenticated

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(23:13-17), and executing control code (26:26-36). As Acres provisions for a peripheral device capable of reconfiguring already stored program data, it is inherent that the peripheral device has data storage as programmable memory.

In re claim 7, as discussed above, code authentication is provided (23:13-17) where the authentication is a comparison of signatures represented as a cyclic redundancy check (CRC).

In re claims 8 and 24, communication could use the RS-232 interface (9:58-59).

In re claims 9, 14, and 30, a remote device is provided to send control data to a peripheral device. The control code is transmitted to the peripheral device by way of an intermediary device known as a DCN (23:30-40). The DCN communicates with the peripheral device by way of serial communication (22:65-23:2). Acres also make provisions for serial communication over any type known in the art (23:13-15) where the preferred serial embodiment is RS-232 (9:58-59). Methods associated with controller communication and operation are discussed above in regard to claim 1.

In re claim 10, Acres provides for control code storage at the DCN (9:6-15).

In re claims 11-13 and 19, Acres teaches that control code is authenticated before reaching the peripheral when the code is sent from the floor controller to the DCN (Fig. 17) and again from the DCN to the gaming device peripheral (23:13-17). As discussed before, the CRC is authentication by way of comparing control code signatures.

In re claim 15, Acres teaches that gaming devices are uniquely identified (8:48-50) so a signal from a remote device would include device designation.

In re claim 16 and 17, Acres teaches the DCN polling the peripheral device, if the peripheral device is active, a signal is generated as a reply indicating activity that would be from

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resident code. Hence receiving a reply signal would subsequently let the DCN and remote device know that control code can be sent for reconfiguration (23:13-24:3).

In re claim 23, Acres teaches the host computer having the ability to uniquely identify a peripheral device (8:45-50).

In re claim 26, Acres teaches that a peripheral device is a game machine, which would contain a coin acceptor (10:20-38). As the device is a game machine it would also inherently have button controllers and display controllers as is well known in the art.

In re claim 27, Acres teaches the game control device, known as the DCN having a variety of mass storage devices for storing control code (9:5-32).

# Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-3, 5-6, 29, and 31-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Acres. Acres teaches the claimed limitations as discussed above and additionally teaches initiation of the DCN device includes providing power (Fig. 13), initiation of the DCN device includes resetting (Fig. 13:255) and also disclosed where program memory is downloaded from a remote device where RAM is used (9:6-15). As is well known in the art, RAM is volatile memory, resetting or losing data when a device is turned off or power is removed. Acres does not specifically teach the above features to be present in the peripheral game device, nor the signal transmission on device initiation. However, the peripheral game device is taught as a

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game devices are provided as electronic devices, the above limitations regarding initiation sequences that include device powering and device resetting as well as the storage components are common methods and components in any electronic game device. Therefore is would have been obvious to one of ordinary skill in the art at the time the invention was made to include the initiation methods and components, as taught by Acres in the DCN, in the peripheral game device. Furthermore with regard to the signal sent on device initiation, network devices on power up generally begin sending signals to alert connected devices of the newly connected devices.

Claims 18, 20-22, 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over Acres in view of McCauley '392. Acres teaches the claimed limitations as discussed above, but does not teach the use of USB as a serial connection protocol/interface. McCauley teaches using USB as an interface and communication protocol between a variety of peripheral devices (Abstract). One would be motivated to modify Acres to include the McCauley teaching of USB as an interface mechanism as it well known in the art that USB is an up to date serial line protocol and additionally USB would reduce cost and complexity of computer interface hardware design in peripheral devices (McCauley, 2:35-38). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Acres's use of RS-232 standard for a serial communication interface to use USB, taught by McCauley, as USB is an analogous and up to date serial line interface protocol to RS-232.

In re claims 20-22, Acres teaches of using CRC to verify code sent to peripheral devices as discussed above, but does not include periodic polling to verify code. McCauley teaches that periodic polling of peripheral devices is used to verify authenticity of devices by comparing a

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stored code in a remote host device against a code transmitted from a peripheral device (7:29-47). The process of authenticating devices by using the code comparison method is analogous to verifying transmitted code, therefore it would have been obvious to modify Acres use McCauley's periodic polling and code comparison technique for enhanced security. Furthermore, CRC is analogous to directly comparing code required by Applicant as CRC uses an algorithm to generate a signature based upon the original code. Likewise as taught by Acres and McCauley, verification can occur on both the remote host side and peripheral side therefore it would have been further obvious to have sent the code from either location at periodic times for verification which would include sending the code from the remote host device more than once for comparison/verification.

# Response to Arguments

6. Applicant's arguments filed 10/21/02 have been fully considered but they are not persuasive. The focus of Applicant's argument centers on what Applicant considers a fundamental difference between the claimed invention and subject matter contained in Acres. Examiner asserts that Acres does teach transmitting executable control code between a peripheral device and a game device controller. Acres teaches code transmission between a game machine and a DCN. With respect to Applicant's invention, the DCN serves as the device controller and the game machine as a peripheral device. Additionally, Acres teaches that either device can initiate communication for the transmission of code (23:13-19). Applicant also argues that the claimed code transmission and authentication process is different than that taught in Acres. The Examiner's position is that the reconfiguration code transmitted between the two devices taught by Acres is the same as Applicant's code. The transmission of code taught by Acres is still a

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command set of new code that is loaded into memory of the peripheral device and executed by a processor. Applicant's transmitted code maybe of a larger code base, but fails to be fundamentally different as both are directions to be executed by a processor to perform some action.

In regards to the authentication of transmitted code, Applicant argues that the claimed authentication of code is different than CRC. CRC is a simple form of data verification and authentication that is built into layer 2 of the OSI reference model as Applicant states. Also well known in the art is the fact that CRC is built into other layers, such as the application layer, and is therefore not restricted to the layer 2. CRC is a digital signature created by a hashing algorithm using the data to be transmitted before transmission and then authenticated at the data's destination, insuring that data transmitted from one location to another arrives uncorrupt. As such, CRC meets Applicant's requirement for authentication of transmitted code.

In regards to peripheral identifying itself after code execution, Acres also teaches device identification after code execution. Acres teaches that when both a peripheral device and the device controller are attempting to initiate communication with each other, independent of each others knowledge, the peripheral device gives a communication right of way to the controller (20:13-23). The peripheral device will then attempt to resend communication after completing business with the controller (20:20-23). The message sent by the controller is code that would be executed by the peripheral device, after which, the peripheral device would attempt to initiate communication with the controller. As a necessity in device communication, the peripheral device identification would be sent to the controller so that the controller knows where to reply

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back. Therefore, Acres teaches peripheral device identification after transmitted code is executed.

# Citation of Pertinent Prior Art

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Alcorn et al. '086, discloses transmission of authenticable messages between peripheral devices.

#### Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron L Enatsky whose telephone number is 703-305-3525. The examiner can normally be reached on 8:00 - 4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Valencia Martin-Wallace can be reached on 703-308-4119. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9302 for regular communications and 703-872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

Aaron Enatsky

December 6, 2002

JESSICA HARRISON PRIMARY EXAMINER